



US006585806B2

(12) **United States Patent**  
Quinn et al.

(10) **Patent No.:** US 6,585,806 B2  
(45) **Date of Patent:** Jul. 1, 2003

(54) **AIR DRYER RESERVOIR MODULE  
COMPONENTS**

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(\*) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 0 days.

(21) Appl. No.: 09/571,897

(22) Filed: May 16, 2000

(65) **Prior Publication Data**

US 2001/0052291 A1 Dec. 20, 2001

**Related U.S. Application Data**

(63) Continuation of application No. 09/030,583, filed on Feb.  
25, 1998, now Pat. No. 6,074,462, which is a continuation-  
in-part of application No. 08/993,931, filed on Dec. 18,  
1997, now Pat. No. 5,917,139.

(51) **Int. Cl. 7** ..... B01D 53/04; B01D 53/26

(52) **U.S. Cl.** ..... 95/121; 96/113; 96/136;  
96/144; 96/147; 55/DIG. 17

(58) **Field of Search** ..... 55/DIG. 17; 96/108,  
96/109, 113-116, 130, 136, 143, 144, 147;  
95/117-119, 121

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(57) **ABSTRACT**

An air dryer and reservoir assembly for providing compressed air from an air compressor (20) on a heavy motor vehicle which includes an air dryer (14) connected to receive compressed air from the air compressor (20) and a secondary reservoir (12), including an integral purge volume (34), for storing compressed air which passes through the air dryer (14), with the air dryer (14) and the secondary reservoir (12) being securely attached to a housing (16) to form an air dryer reservoir module (10). A primary reservoir (18) for storing compressed air from the air dryer (14) is located remote from the air dryer reservoir module (10). A pressure equalizing mechanism (57) is disposed between the primary reservoir (18) and the secondary reservoir (12) for keeping pressure in the two reservoirs (12,18) equal. Components located within the housing (16) control air flow between the air dryer (14) and the primary and secondary reservoirs (18,12) and also monitor the pneumatic brake system circuits fed by the primary and secondary reservoirs (18,12).

48 Claims, 6 Drawing Sheets

